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Poultry pre-incubation eggs treatment - using laser beams of specified  
wave length and medium radiation power on egg surface

Patent Assignee: BESSARABOV B F (BESS-I)

Inventor: BOYARSKIKH G V; MAKEEVA N S

Number of Countries: 001 Number of Patents: 001

Basic Patent:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
SU 1010741	A	19840315	SU 2737226	A	19790105	198429 B

Priority Applications (No Type Date): SU 2737226 A 19790105

Abstract (Basic): SU 1010741 A

The method of rearing chicks is based on the radiation of eggs with low energy non-thermal coherent laser radiation in the visible range. For this purpose eggs pre-selected according to the required parameters and treated are laid in troughs and positioned on a conveyor system. The laser radiation of the eggs is performed using an installation including helium-neon optical quantum generators (lasers) with an indicator of the density of the laser radiation measured directly on the surface radiated, and the conveyor system supplying the eggs for radiation in standard troughs, without interfering with the process.

The most satisfactory effect can be achieved using a laser with 6328 Angstroms wave length and an average radiation energy of between 10 oower minus 4, and minus 2 joules/sq.cm. After they have been subjected to radiation, the eggs are incubated in the normal way. This method increases the hatching and survival rate. Bul.10/15.3.84

(4pp Dwg.No.0/0)

Title Terms: POULTRY; PRE; INCUBATE; EGG; TREAT; LASER; BEAM; SPECIFIED;  
WAVE; LENGTH; MEDIUM; RADIATE; POWER; EGG; SURFACE

Derwent Class: P14; P34; S05

International Patent Class (Additional): A01K-041/00; A61N-005/10

File Segment: EPI; EngPI

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